_	SECRET			
	Monthly	Report		

25X1

PAR 249 30 Jun 69

SUBJECT:		Precis	sion	Enlarger	Prototype	(BPE)	Operational	
	Improve	ements	and	Maintenar	nce			

25X1

TASK/PROBLEM

1.	${\tt Pro} {\bf vide}$	photographic enlarger maintenance at the customer's	
facility	for one	Precision Enlarger (BPE) and three* 10-20-40X	
Enlargers	S .		

25X1

DISCUSSION

- 2. Contractor personnel visited the customer's facility during the week beginning 9 June 1969 to perform the required monthly preventive maintenance (PM) on the BPE, and two-month PM on the four* 10-20-40X Enlargers. The attached check lists show the work performed.
- 3. During the check on the BPE, it was observed that the actuator on the left limit switch for the vertical transport drive was broken. As a replacement for this type of item was not readily available in the area, a new one will be delivered and installed on the next trip.
- 4. A film transport problem was encountered on the S/N 113 10-20-40X Enlarger. As this problem was caused by a defective Thyratron Tube, the tube was replaced using customer spares. Replacement of the tube eliminated the transport problem. Check of the other 10-20-40X Enlargers indicated satisfactory operation.

Declass Review by NGA

^{*} Although the Task/Problem specifies preventive maintenance on three 10-20-40X Enlargers, the contractor regularly services four enlargers on the basis of verbal request. The customer has stated that he does not consider it necessary to revise the wording of PAR 249 at this time.

PAR 249 30 Jun 69

PLANNED ACTIVITY

5. This visit completed effort under PAR 249. When contractor personnel visit the customer's facility during the week beginning 14 July 1969 to perform monthly PM on the BPE, effort will be under PAR 249A.

PAR 249 30 Jun 69

PREVENTIVE MAINTENANCE SCHEDULE CHECK LIST

BEACON PRECISION ENLARGER

	Item Description	✓		Item	Description
	Daily Interval				One-Month Interval
	Check the four indicator lamps on the sub-control panel.	√		1	Wax the steel rails of the lens ran and of the easel.
	2.1 Check closed-negative-gate interlock.	✓	Ī	2	Install new air filter in lamphouse
_	2.2 Check interlock that causes vertical transport slow speed.	✓		3	Clean the nylon brushes of the fluiremoval system.
	2.3 Check interlock that disables negative transport after fluid injection.	√		4	Check all tubing and hoses for cracand air leakage.
	2.4 Check operation of microswitch that functions when manual-film-movement knob is pushed in.	√		5	Check and, if necessary, clean the lenses of the condenser lens assemblies.
•	3.1 Check the indicator lamps for the two attenuator banks of the easel photometer.	<u> </u>			Six-Month Interval
	3.2 Check the meter scale illuminator lamp of the easel photometer.	·			
	3.3 Check the antifatigue lamp in photo- multiplier tube housing.			1.1	Make a photographic check on all simutching sets of objective and condenser lens assemblies.
	Clean the glass plates of the negative gate.			1.2	Be sure that film is tracking proper in both directions on the negative
	One-Week Interval		2	2	transport system. Check the timing belts of the film
	Vacuum-clean the enlarger.				transport system, of the vertical drive system, and of the easel drive
2	Check, and if necessary, clean the objective lenses and all glass filters.				assembly for wear.
3	Wacuum-clean the front surface of the easel.	Che	cke	ed by	Date 9 June 6
1	Check the fiber optics for broken fibers.				Changed 2/68

SECRET

-3-

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PAR 249 30 Jun 69

PREVENTIVE MAINTENANCE SCHEDULE CHECK LIST TWO-MONTH INTERVAL

PRECISION ENLARGER, 10-20-40X

Assigned To:		25X1
Date:	10 Jun 69	
Machine Serial No.	101	

~	Item	Description	-	Item	Description
	1	Film Transport		8	Vacuum Pump Assembly
✓	1.1	Static Removal Unit	NA	8.1	Hoses and Couplings
√	1.2	Guide Roller Flanges	NA	8.2	Pump
√	1.3	Air Knives	NA	8.3	Oil Level
√	1.4	Belts and Pulleys		9	Lamp House Assembly
✓	1.5	Lubricate Bearings	1	9.1	Housing
	2	Easel and Stencil Assembly	1	9.2	Filter (Photographic)
√	2.1	Easel	V	9.3	Light Leaks
NA	2,2	Air Pressure System	1	9.4	Lamp House Blower
	3	Illuminator		10	Immersion System
V	3.1	Glass	V	10.1	Ejectors
√	3.2	Lamps	V	10.2	Hoses and Couplings
√	4	Negative Gate Interlock	√	10.3	Blower
√	5	Lenses	1	10.4	Fluid Level
√	6	Stripper Plate	√	11	Lamp House Control
	7	Air Pressure System	V	12	Analyzer
/	7.1	Air Lines		13	Photo Check
NA	7.2	Compressor Control		13.1	Resolution
AV	_7. 3	Relief Valve		13.2	Uniformity
\Box	7.4	Regulator		14	General Inspection
AV	7.5	Filter-Compressor		 	
NA	7.6	Drain Storage Tank			Initials 25

Form No. MS-103

March 26, 1966

SECRET

GROUP 1 Approved For Release 2006/11/01 : CIA-RDF 78B04770A00110000004-1

PREVENTIVE MAINTENANCE SCHEDULE CHECK LIST TWO-MONTH INTERVAL

PRECISION ENLARGER, 10-20-40X

Assigned To:		25X1
Date:	10 Jun 69	
Machine Serial No.	113	

~	Item	Description	-	Item	Description
	1	Film Transport		8	Vacuum Pump Assembly
/	1.1	Static Removal Unit	NA	8.1	Hoses and Couplings
√	1.2	Guide Roller Flanges	NA	8.2	Pump
\perp	1.3	Air Knives	NA	8.3	Oil Level
√	1.4	Belts and Pulleys		9	Lamp House Assembly
√	1.5	Lubricate Bearings	✓	9.1	Housing
	2	Easel and Stencil Assembly	✓	9.2	Filter (Photographic)
√	2.1	Easel	√	9.3	Light Leaks
NA	2.2	Air Pressure System	1	9.4	Lamp House Blower
	3	Illuminator		10	Immersion System
√	3.1	Glass	1	10.1	Ejectors
√	3.2	Lamps	1	10.2	Hoses and Couplings
√	4	Negative Gate Interlock	√	10.3	Blower
√	5	Lenses	✓	10.4	Fluid Level
√	6	Stripper Plate	√	11	Lamp House Control
- 1	7	Air Pressure System	√	12	Analyzer
√	7.1	Air Lines		13	Photo Check
NA	7.2	Compressor Control		13.1	Resolution
NA	_7.3	Relief Valve		13.2	Uniformity
√	7.4	Regulator		14	General Inspection
NA	7.5	Filter-Compressor			
NA	7.6	Drain Storage Tank		•	Initials 25X

REMARKS:

Defective Thyratron tube. After tube was replaced, film transport operated satisfactorily.

Form No. MS-103 March 26, 1966

SECRET

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PAR 249 30 Jun 69

PREVENTIVE MAINTENANCE SCHEDULE CHECK LIST TWO-MONTH INTERVAL

PRECISION ENLARGER, 10-20-40X

Assigned To:		25X1
Date:	10 Jun 69	
Machine Serial No.	119	

~	Item	Description	~	Item	Description
	1	Film Transport		8	Vacuum Pump Assembly
√	1.1	Static Removal Unit	ΝA	8.1	Hoses and Couplings
V	1.2	Guide Roller Flanges	NА	8.2	Pump
√	1.3	Air Knives	NA	8.3	Oil Level
1	1.4	Belts and Pulleys		9	Lamp House Assembly
√	1.5	Lubricate Bearings	1	9.1	Housing
	2	Easel and Stencil Assembly	✓	9.2	Filter (Photographic)
√	2.1	Easel	√	. 9.3	Light Leaks
NA	2.2	Air Pressure System	√	9.4	Lamp House Blower
	3	Illuminator		10	Immersion System
√	3.1	Glass	√	10.1	Ejectors
√	3.2	Lamps	√	10.2	Hoses and Couplings
✓	24	Negative Gate Interlock	√	10.3	Blower
√	5	Lenses	√	10.4	Fluid Level
√	6	Stripper Plate	√	11	Lamp House Control
	7	Air Pressure System	√	12	Analyzer
√	7.1	Air Lines		13	Photo Check
NA	7.2	Compressor Control		13.1	Resolution
NA	_7. 3	Relief Valve		13.2	Uniformity
√	7.4	Regulator		14	General Inspection
NA	7.5	Filter-Compressor			
NA	7.6	Drain Storage Tank			Initials 25X

Form No. MS-103 March 26, 1966

SECRET

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PAR 249 30 Jun 69

PREVENTIVE MAINTENANCE SCHEDULE CHECK LIST TWO-MONTH INTERVAL

PRECISION ENLARGER, 10-20-40X

Assigned To:		25 X 1
Date:	10 Jun 69	
Machine Serial No.	123	

1	Item	Description	-	Item	Description
	1	Film Transport		8	Vacuum Pump Assembly
√	1.1	Static Removal Unit	NA	8.1	Hoses and Couplings
√	1.2	Guide Roller Flanges	NA	8.2	Pump
√	1.3	Air Knives	NA	8.3	Oil Level
1	1.4	Belts and Pulleys		9	Lamp House Assembly
1	1.5	Lubricate Bearings	1	9.1	Housing
	2	Easel and Stencil Assembly	1	9.2	Filter (Photographic)
✓	2.1	Easel	√	9.3	Light Leaks
NA	2.2	Air Pressure System	1	9.4	Lamp House Blower
	3	Illuminator		10	Immersion System
1	3.1	Glass	1	10.1	Ejectors
√	3.2	Lamps	1	10.2	Hoses and Couplings
√	4	Negative Gate Interlock	1	10.3	Blower
√	5	Lenses	1	10.4	Fluid Level
√	6	Stripper Plate	√	11	Lamp House Control
	7	Air Pressure System	V	12	Analyzer
√	7.1	Air Lines		13	Photo Check
NA	7.2	Compressor Control		13.1	Resolution
NA	_7. 3	Relief Valve		13.2	Uniformity
✓	7.4	Regulator		14	General Inspection
NA	7.5	Filter-Compressor			
NA	7.6	Drain Storage Tank		•	Initial: 25

Form No. MS-103 March 26, 1966

SECRET

GROUP 1